

**IN THE ABSTRACT:**

Replace the abstract originally provided on the cover sheet of the PCT application with the new abstract as follows: A new abstract numbered page 26 is enclosed for the last page of the application following the claims.

**ABSTRACT OF THE DISCLOSURE**

A method for producing an optical fiber having low polarization mode dispersion, by the steps of a) providing an optical fiber perform of glass material; b) heating the glass material of an end portion of the optical fiber perform; c) drawing the heated glass material at a drawing speed  $V$  to form an optical fiber, the drawn glass material having a viscous zone; and d) applying to the optical fiber a substantially sinusoidal spin, which is transmitted to the viscous zone, the spin function frequency  $\nu$ , the viscous zone length  $L$  and the drawing speed  $V$  being such that both a torsion and at least a 50% detorsion are applied to the viscous zone.



- 26 -

**ABSTRACT OF THE DISCLOSURE**

A method for producing an optical fiber having low polarization mode dispersion, by the steps of a) providing an optical fiber perform of glass material; b) heating the glass material of an end portion of the optical fiber perform; c) drawing the heated glass material at a drawing speed  $V$  to form an optical fiber, the drawn glass material having a viscous zone; and d) applying to the optical fiber a substantially sinusoidal spin, which is transmitted to the viscous zone, the spin function frequency  $\nu$ , the viscous zone length  $L$  and the drawing speed  $V$  being such that both a torsion and at least a 50% detorsion are applied to the viscous zone.